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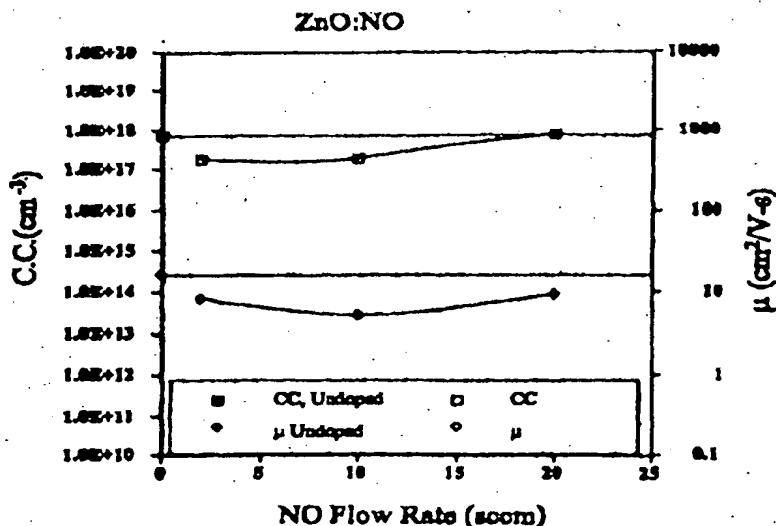
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(54) Title: METHOD FOR PRODUCING HIGH CARRIER CONCENTRATION P-TYPE TRANSPARENT CONDUCTING OXIDES

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(57) Abstract: A method for producing transparent p-type conducting oxide films without co-doping plasma enhancement or high temperature comprising: a) introducing a dialkyl metal at ambient temperature and a saturated pressure in a carrier gas into a low pressure deposition chamber, and b) introducing NO alone or with an oxidizer into the chamber under an environment sufficient to produce a metal-rich condition to enable NO decomposition and atomic nitrogen incorporation into the formed transparent metal conducting oxide.